

## Final Exams

## PART TWO

28 Final Exams of some Schools Governorates.



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Answer the following questions :

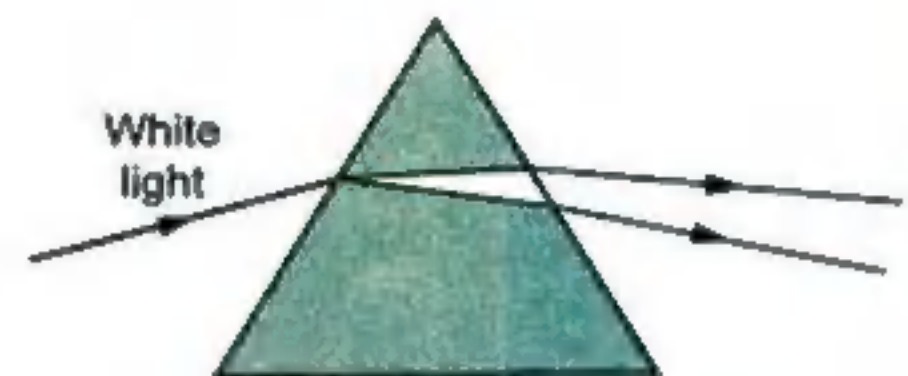
1 [A] Put (✓) or (✗) :

1. Filtration is used to separate iron nails from sand. ( )
2. The balance of ecosystem occurs due to the interface of man. ( )
3. Yellow light colour is an example of primary colours. ( )
4. An electric current can be generated by using a magnet. ( )

[B] Look at the opposite figure :

1. What is the name of the device ?

2. Mention its function.



[C] Give reasons for :

1. Bilharzia worm is a parasite.

2. The moon is not considered as a source of light.

2 [A] Write the scientific term :

1. The disease caused by some types of mosquitoes and infects the man. ( )
2. The natural area includes living organisms and non-living things. ( )
3. A darkened area formed behind an object once light falls on it. ( )
4. The instrument used to separate oil from water. ( )

[B] Choose the correct answer :

1. Mixing blue light colour with red light colour produces ..... light colour.  
a. magenta                      b. cyan                      c. yellow
2. The food relationship between tiny aquatic organisms and sponge is an example of .....  
a. parasitism.                      b. commensalism.                      c. mutualism.
3. The parasite that causes anaemia to man is .....  
a. ascaris worm.                      b. filaria worm.                      c. liver worm.
4. The area around the magnet where magnetic force appears in it , .....  
a. magnetic poles.                      b. magnetic field.                      c. magnet.



## 3 [A] Complete the following statements :

1. The solution consists of ..... and .....
2. .... and ..... are some ways of self-defence against predation.
3. .... is used to pick up the huge blocks of iron, while ..... is used to generate electricity in bicycle.
4. Increasing ..... reduces solubility time, while we use ..... as a common solvent.

## [B] What is meant by ... ?

1. Irregular reflection.

2. Solvent.

## [C] What happens when ... and give reasons ?

1. You look at the spoon in a beaker contains water.
2. When the north pole of a magnet gets near to the north pole of another magnet.

## 4 [A] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. External parasite as	a. a mixture.
2. Internal parasite as	b. a pure substance.
3. Distilled water is	c. liver worm.
4. Mineral water is	d. bug.

1. ....
2. ....
3. ....
4. ....

## [B] Complete the table :

Points of comparison	Transparent material	Opaque material
1. Definition :	..... .....	..... .....
2. Examples :	.....	.....



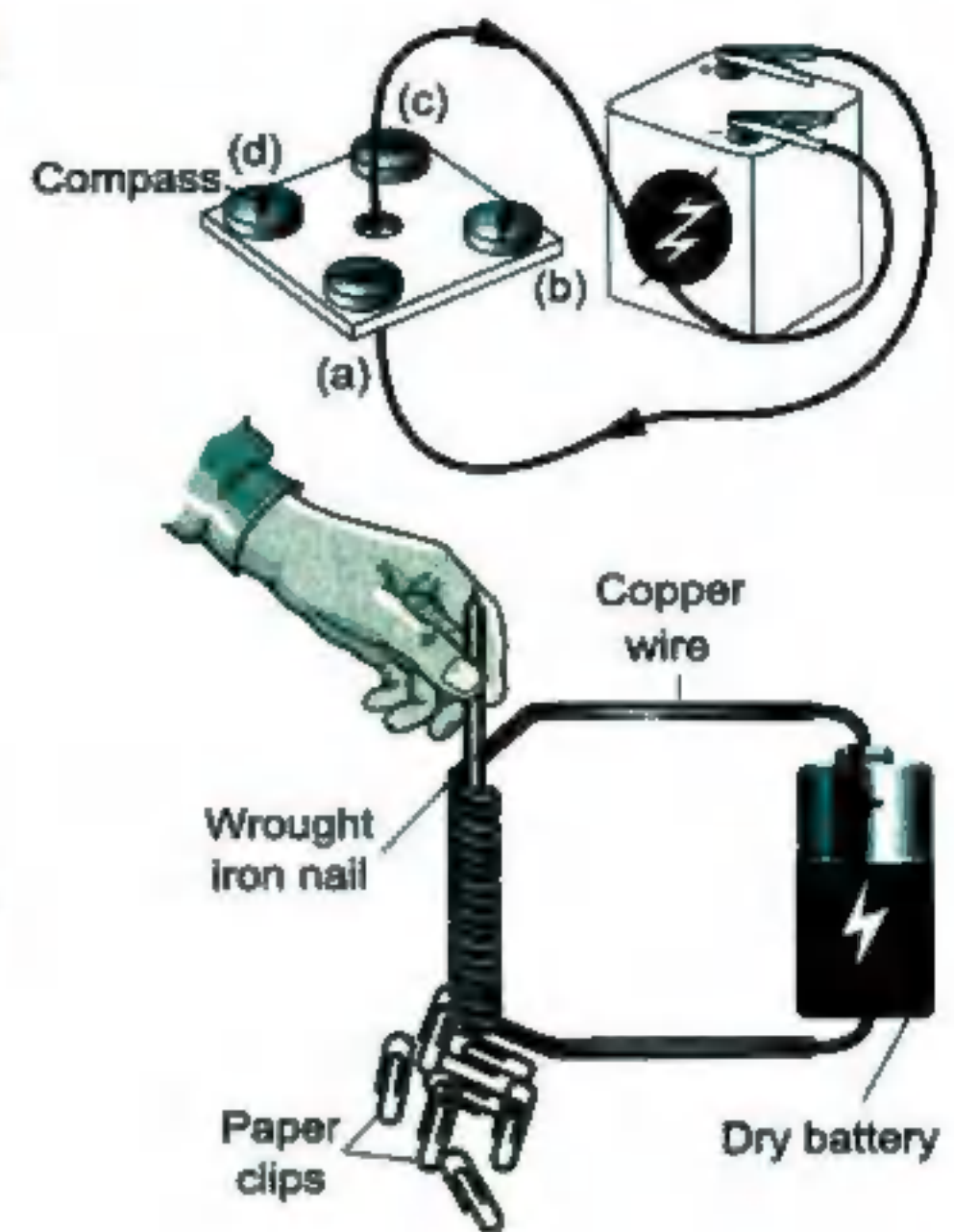
[C] What is your observation and conclusion :

1. Put the wire beside the compass.

.....  
.....

2. When approach the iron nail to paper clips.

.....  
.....



2

Cairo Governorate

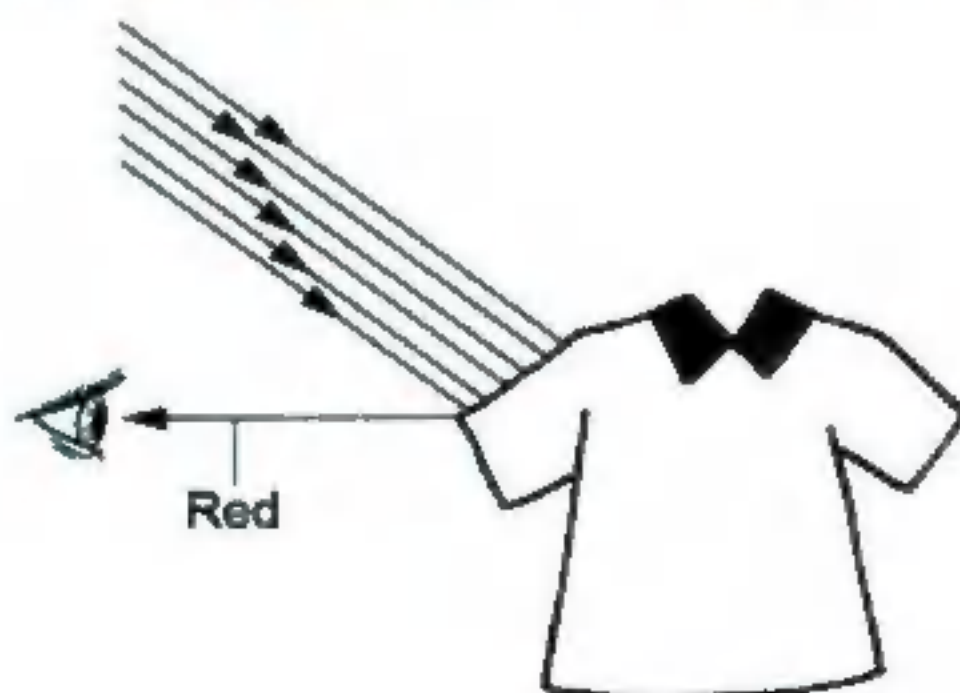
Al Maadi Educational directorate  
Manarat Al Maadi Language School

Answer the following questions :

1 [A] Complete the following sentences :

1. .... and .... are ways of mixing solid materials.
2. Like magnetic poles ..... and dislike magnetic poles ..... each other.
3. The filaria worm causes ..... disease, while fleas causes ..... disease.
4. The electromagnet changes ..... energy into ..... energy.
5. Camouflage is found in some living organisms such as ..... and .....
6. Solubility process depends on ..... and .....

[B] What is the colour of the body in each case :



(1)



(2)



**2 [A] Choose the correct answer :**

- All the following are secondary coloured lights except .....  
a. yellow.      b. magenta.      c. blue.      d. cyan.
- Salt solution is considered as ..... solution.  
a. homogeneous      b. heterogeneous      c. suspension      d. (a) and (c)
- The devoured animal by another animal is known as the .....  
a. saprophyte.      b. parasite.      c. prey.      d. predator.
- The image formed through narrow holes is .....  
a. minimized.      b. enlarged.      c. inverted.      d. (a) and (c).

**[B] Give reasons for :**

- Formation of shadow.  
.....
- Some plants are known as insectivorous plants.  
.....
- Air is considered a mixture.  
.....
- The spoon seems broken in a cup of water.  
.....

**3 [A] Write the scientific term of each of the following statements :**

- A darkened area that is formed when light falls on an opaque object. ( ..... )
- The natural area including living organisms and non-living things.  
( ..... )
- A device used to convert kinetic energy into electric energy. ( ..... )
- A method used to separate iron objects from other solid substances in a mixture. ( ..... )

**[B] Mention one use for each of the following :**

- Compass.  
.....
- Separating funnel.  
.....
- The electromagnet.  
.....
- Glass prism.  
.....

**4 [A] Put (✓) or (x) , then correct the wrong ones :**

- Stirring increases the time of solubility.  
..... ( )



2  
Part

2. Image can be seen clearly behind carton.

( )

3. In mutualism, each organism gets benefit from the other.

( )

4. Cutting trees harms the environmental balance.

( )

**[B] What happens when .... ?**

1. Hanging a magnet and allow it to move freely.

2. Mixing the seven spectrum colours.

3. Decomposers disappear from an environment.

4. Heating salty water for a long time.

## 3

## Cairo Governorate

Eastern Nasr city Educational Zone  
Thebes Lang. School

Answer the following questions :

**1 Complete :**

1. The basic idea of the dynamo is the changing of ..... energy into ..... energy.
2. The spectrum colours starts with ..... colour and ends with ..... colour.
3. .... is a common solvent.
4. The relationship between sponge and tiny aquatic living organisms is .....
5. Like magnetic poles ..... each other, whereas dislike poles ..... each other.

**2 [A] Write the scientific term :**

1. A device used to locate the main four directions. ( ..... )
2. A darkened area formed behind an object once light falls on it. ( ..... )
3. The space around the magnet in which the magnetic force appears. ( ..... )
4. It is any natural area including living organisms and non-living things. ( ..... )
5. The seven colours of light which are formed in the sky during rainfall. ( ..... )



## [B] Give reasons for :

1. Wood is an opaque material.  
.....
2. Both milk and tomato sauce are mixtures.  
.....
3. Frogs undergo camouflage and change their colour.  
.....

## 3 [A] Choose the correct answer :

1. .... is used to separate water-oil mixture.  
a. Filtration      b. Separating funnel      c. Evaporation
2. Mixing blue light with red light produces ..... light.  
a. cyan      b. yellow      c. magenta
3. Mosquito causes ..... disease.  
a. small pox      b. malaria      c. elephantiasis
4. Plants which can't make their protein are called ..... plants.  
a. prey      b. insectivorous      c. host
5. Light travels in ..... lines.  
a. curved      b. broken      c. straight
6. By increasing the temperature of the solution, the speed of solubility .....  
a. increases.      b. decreases.      c. doesn't change.

## [B] Put (✓) or (x) in front of each of the following :

1. Fungi that feed on the dead organisms bodies are called producers. ( )
2. The electric current has magnetic effect. ( )
3. The image which is formed through narrow holes is inverted. ( )
4. A mixture of salt and water can be separated by a magnet. ( )

## 4 [A] Correct the underlined words :

1. An electromagnet changes electric energy into kinetic energy. ( )
2. Bilharzia and ascaris worms are external parasites. ( )
3. An object seems black as it reflects all the light colours. ( )
4. Light reflects regularly when it falls on the surface of a paper. ( )
5. Salty solution is a heterogeneous mixture. ( )



**[B] What happens if ... ?**

1. Hanging a magnet and allow it to move freely.

.....

2. White light falls on a green object.

.....

**[C] Compare between magnetic and non-magnetic materials :**

Points of comparison	Magnetic materials	Non-magnetic materials
1. Definition :	.....	.....
2. Examples :	.....	.....

**Answer the following questions :**

**1 Complete the following sentences :**

- Light travels in ..... lines, and the light energy that can be seen is called the .....
- The basic idea of the electric generator is the changing of ..... energy into ..... energy.
- As the white light falls on a red apple, it absorbs ..... light colours and reflects ..... colour.
- Predation is less common in ..... world than in ..... world.
- In the salty solution ..... is the solute and ..... is the solvent.
- Nodular bacteria benefit from bean plant by getting ..... which made by the plant during ..... process.
- Bees which look like wasps undergo ..... phenomenon, while chameleons undergo ..... phenomenon.
- Like magnetic poles ..... each other, whereas unlike poles ..... each other.

**2 Write the scientific term of each of the following statements :**

- The main source of light on the Earth planet. (.....)
- A food relationship between two organisms that benefit from each other. (.....)
- Materials that things cannot be seen behind them. (.....)



4. The natural area including living organisms and non-living things. ( ..... )
5. A darkened area which is formed as a result of light falling on an opaque object. ( ..... )
6. The change in the direction of light rays when it passes from a transparent medium to another transparent medium. ( ..... )
7. A common solvent in which thousands of substances dissolve in it. ( ..... )
8. The process by which a solute dissolves in a solvent leading to the disappearance of the solute. ( ..... )

### 3 Choose the correct answer :

1. .... reflects all light colours fall on it.
 

a. White opaque object	b. Black opaque object
c. Red opaque object	d. Green opaque object
2. Atmospheric air is an example of ..... mixture.
 

a. gaseous-gaseous	b. compound
c. liquid	d. solid-liquid
3. The solubility time is decreased by .....
 

a. increasing the stirring process.	b. increasing the temperature.
c. increasing the amount of solvent.	d. all the previous.
- 4 All the following are primary light colours except ..... is secondary light colour.
 

a. yellow	b. green	c. blue	d. red
-----------	----------	---------	--------
5. We can see things as a result of ..... of light rays.
 

a. reflection	b. refraction	c. decompose	d. analysis
---------------	---------------	--------------	-------------
6. From insect-eaters plants is .....
 

a. drosera.	b. mushroom.	c. bean.	d. banana.
-------------	--------------	----------	------------
7. To separate sand from water by .....
 

a. filtration.	b. grinding.	c. shaking.	d. separating funnel.
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8. Mosquitoes cause ..... disease to man.
 

a. malaria	b. small pox	c. filaria	d. liver
------------	--------------	------------	----------

### 4 [A] Give reasons for each of the following :

1. The moon seems luminous although it is a dark body.

.....

2. Both sugar and distilled water are considered as pure matter.

.....



[B] Put (✓) or (x) and correct the wrong ones :

1. A glass prism is used to separate white light into four spectrum colours. ( )
2. The magnet has three poles. ( )
3. The electromagnet is used for making electric bells and electric mixer. ( )
4. Green plants are called autotrophic organisms. ( )
5. Oil and water can be separated by a magnet. ( )
6. Bilharzia worm, tape worm and ascaris worm are external parasites. ( )

5

Cairo Governorate

New Cairo Zone  
Manor House International School

Answer the following questions :

1 Complete the following :

1. .... and .... are from the factors that harm the environmental balance.
2. Parasitism may be .... or .....
3. Dynamo changes the .... energy into .... energy.
4. The solution consists of .... and .....
5. When we move a coil between two poles of a magnet ..... is generated in the coil.
6. The white board ..... all light colours, while the black board ..... all light colours.
7. Light reflects when it falls on a ....., while it refracts when it passes from water to .....
8. The nearer object to the light source has the ..... shadow.

2 [A] Write the scientific term :

1. It's the returning back of light when it falls on a smooth and shiny object. ( .....
2. The liquid used to dissolve the solid substance. ( .....



3. The materials that are not attracted to the magnet. ( ..... )  
 4. A set that is used to detect the main four directions. ( ..... )

[B] Mention one use for each of the following :

1. Separating funnel .  
 .....

2. Magnet.  
 .....

[C] What are the factors that keep the environmental balance ?  
 .....  
 .....

3 [A] Correct these statements :

1. The magnetic field is the ability of magnet to attract the magnetic materials .  
 .....  
 2. Rainbow is formed in the sky before raining.  
 .....  
 3. Mixture of sugar in water is a heterogeneous mixture.  
 .....  
 4. Light transmits in curved lines.  
 .....

[B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Spectrum colours	a. relationship between decomposer and dead body.
2. Magnetic field	b. like mirror.
3. Reflecting surface	c. the 7 colours which the sunlight are made up of.
4. Saprophytism	d. is a way to separate mixtures.
5. Filtration	e. it's the space around the magnet in which the magnetic force appears.

1. .... 2. .... 3. .... 4. .... 5. ....



## 4 [A] Give reasons for each of the following :

1. We must increase the number of coil turns and use strong magnet in dynamo.  
.....
2. Water is considered as a common solvent.  
.....
3. Foil paper is an opaque material.  
.....
4. We must wear white clothes in summer.  
.....
5. Red, green and blue are primary light colours.  
.....

## [B] Choose the correct answer :

1. In predation, the lion is .....  
a. predator.                      b. prey.                      c. parasite.
2. When a magnet is suspended freely, it will point to .....  
a. north.                      b. south.                      c. north and south.
3. Mixing green and blue gives .....  
a. magneta.                      b. yellow.                      c. cyan.

Answer the following questions :

## [A] Complete the following sentences :

1. The image formed through narrow holes is ..... and .....
2. Like magnetic poles ....., whereas unlike poles ..... each other.
3. .... and ..... are from saprophytic organisms.
4. The scientific idea of dynamo depends on the conversion of the ..... energy into ..... energy.

## [B] Give one use for each of the following :

1. Compass.  
.....
2. The electromagnet.  
.....
3. Glass prism.  
.....
4. Separating funnel.  
.....



**2 [A] Write the scientific term of each of the following statements :**

1. The materials which you can see objects clearly behind them. ( ..... )
2. A natural area including living organisms and non-living things. ( ..... )
3. The space around the magnet in which its magnetic properties appear. ( ..... )
4. It consists of a solute and a solvent. ( ..... )

**[B] What happens if ... ?**

1. Heating salty water for a long time.

2. Light falls on a shiny surface.

3. Using strong magnet in the dynamo.

4. Saprophytes (decomposers) disappear from the Earth.

**3 [A] Give reasons for each of the following :**

1. Water is called a common solvent.

2. The spoon seems broken in a cup of water.

3. Drosera and dionaea are known as insectivorous plants.

4. The electromagnet is considered as a temporary magnet.

**[B] Show how you can separate the following mixtures :**

1. Sugar solution.

2. Sand solution.

**[C] What is meant by each of the following ... ?**

1. Secondary coloured lights.

2. Pure substance.



## 4 [A] Choose the correct answer :

- Mixing red, green, and blue lights gives ..... light.  
a. magenta                      b. cyan                      c. white
- Temperature ..... the solubility time.  
a. decreases                      b. increases                      c. doesn't affect
- Green plants are considered as ..... organisms.  
a. decomposer                      b. producer                      c. consumer
- When the magnet hanged freely, it will take ..... direction.  
a. north-west                      b. north-east  
c. north-south                      d. east-south
- Filaria worm causes ..... disease.  
a. malaria                      b. elephantiasis                      c. small pox

## [B] Correct the underlined words in each of the following statements :

- The red apple seems red, because it absorbs the red colour. ( ..... )
- Vegetable salad and milk are pure substances. ( ..... )
- Dissolving carbon dioxide gas in a sugar solution forms mineral water. ( ..... )

## Answer the following questions :

## Complete using the following words :

( refracts - poles - grinding - electric - shaking - mechanical - transparent - saprophytic )

- The magnetic force is most powerful at the two ..... of the magnet.
- The light ..... when it transfers from a transparent medium to another.
- The dynamo is used to convert the ..... energy into ..... energy.
- ..... and ..... are ways of mixing solid materials.
- Fungi are considered as ..... living organisms.
- The materials that objects can be seen through them are called ..... materials.

## 2 Choose the correct answer :

- The process of photosynthesis is made by ..... organisms.  
a. producer                      b. consumer                      c. decomposer
- When a magnet is hanged freely its north pole refers to the ..... direction.  
a. east                      b. north                      c. south



3. Predation acts to ..... the number of preys.  
a. organize                      b. increase                      c. decrease
4. Natural magnet is one of the ..... ores.  
a. iron                              b. wood                              c. copper
5. The substance which dissolves in the solvent is called .....  
a. solution.                      b. mixture.                      c. solute.
6. .... takes place by living organisms to hide from their enemies.  
a. Commensalism                      b. Parasitism                      c. Camouflage
7. Which of the following is considered as ■ secondary light colour ? .....  
a. Yellow.                              b. Green.                              c. Blue.
8. .... is a magnetic material.  
a. Iron                              b. Aluminium                      c. Copper

#### Put (✓) or (x) :

1. Fungi are feeding on dead organisms' bodies are called saprophytes. ( )
2. Solubility speed decreases by shaking and rising the temperature. ( )
3. The carton paper is an opaque material. ( )
4. The magnet has three poles. ( )
5. Predation is a temporary relationship between predator and prey. ( )
6. The green table reflects all light colours. ( )
7. The main source of light on the Earth's surface is electric bulb. ( )
8. The unlike magnetic poles repel and the like poles attract. ( )

#### 4 [A] Write the scientific term of each of the following statements :

1. The energy that we can see. ( .....
2. The material in which the solute disappears in it. ( .....
3. An area around the magnet in which its magnetic force appears. ( .....
4. Food relationship between organisms get their food by devouring other organisms. ( .....
5. The relationship between two living organisms that benefit from each other. ( .....
6. Living organisms which decompose dead organisms. ( .....

#### [B] Give reasons for :

1. Some materials are magnetic.  
.....
2. Predation is not common in plants.  
.....



Answer the following questions :

**Choose the correct answer :**

1. A pencil seems as it broken in a cup of water due to ..... of light.  
a. refraction                      b. absorbtion                      c. reflection
2. The living organism that devours another living organism is .....  
a. host.                      b. predator.                      c. saprophyte.
3. The pure substance like .....  
a. fruit salad.                      b. sugar.                      c. apple juice.
4. White opaque object ..... all light colours.  
a. absorbs                      b. reflects                      c. transmits
5. The ..... changes the electric energy into magnetic energy.  
a. dynamo                      b. electromagnet                      c. compass
6. The ..... is used to separate the white light into 7 spectrum colours.  
a. glass prism                      b. compass                      c. dynamo
7. Light can't be transmitted through ..... materials.  
a. transparent                      b. translucent                      c. opaque
8. The mixing of red , blue and green producing ..... colour.  
a. magenta                      b. green                      c. white

**2 [A] Write the scientific term of each of the following statements :**

1. The substance which dissolves in the solvent. ( ..... )
2. The relationship between cat and rat. ( ..... )
3. The returning back of light when it falls on a surface. ( ..... )
4. Materials that are attracted to the magnet. ( ..... )
5. Any natural area contains living organisms and non-living things. ( ..... )

**[B] Circle the odd word :**

1. Red - Magenta - Blue - Green. ( ..... )
2. Stirring - Filtration - Shaking - Grinding. ( ..... )
3. Mushroom - Fish - Penecillium - Bread mold fungus. ( ..... )



## 3 [A] Give reasons for :

1. Air is considered a mixture.  
.....
2. Water is a common solvent.  
.....
3. Predation is a temporary relationship.  
.....

## [B] Correct the underlined words :

1. Chameleon undergoes mimicry. ( ..... )
2. Banana seems yellow when it is seen through blue glass sheet. ( ..... )
3. Shadow is formed by falling light on a transparent object. ( ..... )
4. Dynamo is fixed at the seat of the bicycle. ( ..... )
5. Sand and water can be separated by evaporation. ( ..... )

## 4 Complete the following :

1. .... + ..... → Solution.
2. .... + ..... → Cyan.
3. Predation is less common in ..... world than that in ..... world.
4. The ..... poles attract, while the ..... poles repel.

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Giza Governorate

6 of October Directorate  
Sun Gate Language School

Answer the following questions :

## Choose the correct answer :

1. The relationship between bilharzia worm and man is .....  
a. predation.                      b. commensalism.                      c. parasitism.
2. .... formed by mixing red and green.  
a. Yellow                              b. Cyan                              c. Magenta
3. Distilled water is a .....  
a. mixture.                              b. pure substance.                      c. solution.
4. Chameleon tends to make .....  
a. mimicry.                              b. camouflage.                      c. symbiosis.
5. The ..... changes kinetic energy into electric energy.  
a. electromagnet                      b. dynamo                      c. motor
6. .... opaque object reflects blue colour.  
a. Black                              b. White                              c. Blue





7. .... organizes the number of prey's population.  
 a. Predation                      b. Saprophytism                      c. Mutualism
8. Magnetic material like .....  
 a. plastic.                      b. copper.                      c. cobalt.

**2 [A] Write the scientific term of each of the following statements :**

1. The returning back of light rays when it falls on a surface. ( ..... )
2. The balance among the components of ecosystem. ( ..... )
3. The colours that impossible to be produced by mixing two other colours. ( ..... )
4. A substance which dissolves in a solvent. ( ..... )
5. The ability of a magnet to attract magnetic materials in its field. ( ..... )

**[B] Give reasons for :**

1. Water is a common solvent.  
 .....
2. Predation is less common in plant world.  
 .....
3. North pole attracts to south pole and repel with north pole.  
 .....

**3 [A] Mention one function of :**

1. Compass.  
 .....
2. Separating funnel.  
 .....
3. Glass prism.  
 .....
4. Magnet.  
 .....

**[B] Complete the following sentences :**

1. The components of ecosystem are ..... and .....
2. .... + ..... → Solution.
3. Lion is a ....., while deer is ■ .....
4. .... object absorbs all light colours, while ..... object reflects all light colours.



## 4 [A] Circle the odd word :

1. Yellow - Green - Cyan - Magenta. ( )
2. Wood - Plastic - Iron - Glass. ( )
3. Fleas - ascaris worm - Tape worm - Bilharzia worm. ( )
4. Air - Clear water - Frosted glass - Glass. ( )

## [B] Put (✓) or (x) with correction :

1. Temperature increases the solubility speed. ( )
2. Soda water is a solid-liquid mixture. ( )
3. Mosquito causes anaemia disease. ( )
4. Light travels in straight lines. ( )

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Giza Governorate

Omrania Zone  
Moharram Islamic Language School

Answer the following questions :

## 1 [A] Write the scientific term of each of the following statements :

1. A set used to separate oil-water mixture. ( )
2. It is the substance that consists of more than one type of particles. ( )
3. The food relationship in which one living organism devours another one. ( )
4. A device used to convert kinetic energy into electric energy. ( )

## [B] Give reasons for :

1. Drosera is insect-eater plant.
2. Air is transparent while rock is opaque material.

## 2 [A] Put (✓) or (x) :

1. Red, green and blue are secondary coloured lights. ( )
2. Benzene is a common solvent. ( )
3. Green table reflects all light colours. ( )
4. Fungi which feed on dead bodies are called saprophytes. ( )



**[B] Choose the correct answer :**

- All the following are methods to form mixtures except .....  
a. shaking.                      b. grinding.                      c. stirring.                      d. evaporation.
- Mixing blue and green lights gives ..... light.  
a. yellow                      b. cyan                      c. magenta                      d. red
- The speed of light in air is ..... that in water.  
a. faster than                      b. equal to                      c. half                      d. (a) and (c)
- All the following are magnetic materials except .....  
a. aluminium.                      b. iron.                      c. steel.                      d. nickel.

**3 Complete the following :**

- The ecosystem may be small as ..... or large as .....
- White light separates into ..... colours which are called .....
- We wear dark clothes in ....., while white clothes in .....
- Distilled water is ....., while mineral water is .....

**4 [A] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Mutualism	a. takes place between man and tape worms.
2. Predation	b. takes place between nodular bacteria and bean plant.
3. Commensalism	c. takes place between cat and rat.
4. Parasitism	d. takes place between sponge and the tiny aquatic organisms.

1. .... 2. .... 3. .... 4. ....

**[B] Mention the function of :**

1. Compass :

.....

2. The electromagnet :

.....



11

Alexandria Governorate

Franciscan Sisters School Ibrahimieh

Answer the following questions :

[A] Complete the following sentences :

1. The scientific idea of the electromagnet depends on the conversion of the ..... energy into ..... energy.
2. Liquid mixtures can be formed by ..... or .....
3. Some autotrophic plants have to prey insects to get their required elements for making .....
4. Matter can be divided into ..... and ..... due to their magnetic attraction.
5. Light ..... when it transfers between two different transparent media.

[B] Give ..... for the following :

1. The box of the compass isn't made from iron.  
.....
2. White light can be separated.  
.....
3. The red apple is seen red through the red glass sheet.  
.....
4. A mixture of salt and water isn't separated by filtration process.  
.....

2 [A] Which of the following processes takes place faster than the other and why ?

1. Dissolving of a quantity of salt in 100 ml. of water  
or dissolving of the same quantity of salt in 300 ml. of water.  
.....  
.....  
.....
2. Dissolving of sugar grains or cubes in water.  
.....  
.....  
.....

[B] Write the scientific term :

1. The space around the magnet in which the effect of magnetic force appears. ( ..... )
2. The process that needs the presence of solvent and solute. ( ..... )
3. Materials that objects can't be seen through them. ( ..... )
4. The balance among the components of the ecosystem. ( ..... )



## [C] Correct the underlined words :

1. Decreasing the temperature doesn't change solubility speed. ( ..... )
2. The compass is used in making electric bell. ( ..... )
3. Table salt is collected by filtration process. ( ..... )
4. Aluminium gets attracted to the magnet. ( ..... )

## 1 [A] What happens when ... ?

1. Passing of an electric current in a wire wrapped around a rod of soft iron.  
.....
2. Mixing the red light with the green light.  
.....
3. When a magnet is hanged freely to move.  
.....
4. You look at a picture through a glass sheet.  
.....

## [B] Put (✓) or (x) and correct the mistakes :

1. The white paper absorbs all light colours that fall on its surface. ( )  
.....
2. Ecosystem is composed of non-living things like water and living organisms like plants. ( )  
.....
3. Like magnetic poles attract, while dislike poles repel each other. ( )  
.....
4. Distilled water is a mixture of minerals and water. ( )  
.....

## 4 [A] Mention the difference between each of the following :

1. Predator and prey.  
.....  
.....
2. Homogeneous mixtures and heterogeneous mixtures.  
.....  
.....
3. The way of self-defence in some bees and in frogs.  
.....  
.....



4. Regular reflection and irregular reflection.

[B] Mention the kind of food relationship between each of the following :

1. Nodular bacteria and bean plant. (.....)
2. Fungi and bread. (.....)

[C] Choose the correct answer :

1. The solvent in the sugary solution is .....  
a. water.                      b. sugar.                      c. non of the following.
2. .... is used to measure the electric current intensity.  
a. Compass                      b. Ammeter                      c. Dynamo
3. Translucent materials have the same colour they .....  
a. permit.                      b. reflect.                      c. refract.
4. .... is made up of only one type of identical particles.  
a. Milk                      b. Mineral water                      c. Sugar

## 12 Alexandria Governorate

## Saint Vincent De Paul School

Answer the following questions :

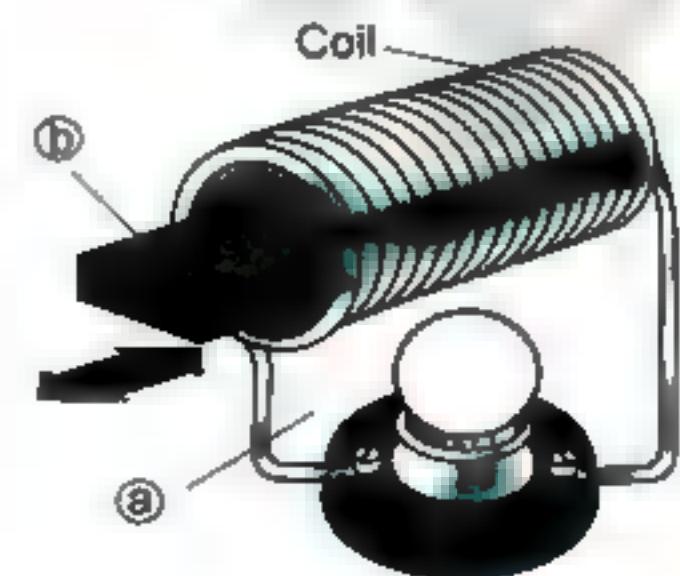
1 [A] Choose the correct answer :

1. All the following colours are primary lights except .....  
a. yellow.                      b. green.                      c. blue.                      d. red.
2. The natural magnet is one of the ..... ores.  
a. copper                      b. aluminium                      c. iron                      d. carbon
3. All the following substances are non-magnetic except .....  
a. copper.                      b. aluminium.                      c. cobalt.                      d. plastic.
4. Salty solution is considered a ..... mixture.  
a. homogeneous                      b. complex                      c. heterogeneous
5. The coil of the dynamo is made up of .....  
a. carbon.                      b. copper.                      c. aluminium.                      d. plastic.

[B] Look at the opposite figure, then answer the following :

1. The figure represents  
.....
2. Write the name of parts (a) and (b).

(a) .....  
(b) .....





**2 [A] Complete the following sentences :**

1. We can separate sand from salt solution mixture by .....
2. .... + ..... → Solution
3. The light ..... when it transfers between two transparent media.
4. Mosquitoes infect man with ..... but ..... infect man with small pox.
5. The greatest ..... is concentrated at the poles of the magnet.

**[B] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Cat and rat	a. solid-solid mixture.
2. Fruit salad	b. internal parasite.
3. Filaria worm	c. gas-liquid mixture.
4. Salt and water	d. predation.
5. Carbon dioxide and sugar solution	e. liquid-liquid mixture.
6. Ascaris worm.	f. elephantiasis.
	g. solid-liquid mixture.

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....

**[C] Cross out the odd word in each of the following :**

1. Tiger - Rabbit - Lion. ( ..... )
2. Salt solution - Milk - Sugar - Tomato sauce. ( ..... )
3. Iron - Wood - Plastic - Aluminium. ( ..... )

**3 [A] Write the scientific term :**

1. The area around the magnet in which the magnetic force appears. ( ..... )
2. A darkened area formed when light falls on an opaque object. ( ..... )
3. A phenomenon in which living organisms change their colour to be hidden from enemies. ( ..... )
4. Plants that devour insects. ( ..... )
5. A device which is used to convert the electric energy into magnetic energy. ( ..... )



**[B] Give reasons for :**

1. We see the paper of the book white.

2. The glass is ■ non-magnetic substance.

3. The pencil seems to be broken in ■ cup of water.

**4 [A] Put (✓) or (x) and correct the false sentences :**

1. An electric current can be generated by using a magnet. ( )

2. Objects are seen less clearly through transparent materials. ( )

3. Plants are the main sources of food on the Earth. ( )

4. Green table reflects all colour lights. ( )

5. Solubility speed decreases by shaking. ( )

**[B] What happens when ... ?**

1. White light passes through a glass prism.

2. Heating salty water for a long time.

3. You approach the north pole of a magnet to the south pole of another magnet.

4. There is no nodular bacteria in roots of leguminous plants as beans.

**[C] Mention the importance for each of the following :**

1. Compass.

2. Separating funnel.



## 13 Alexandria Governorate

## Montaza Educational Zone

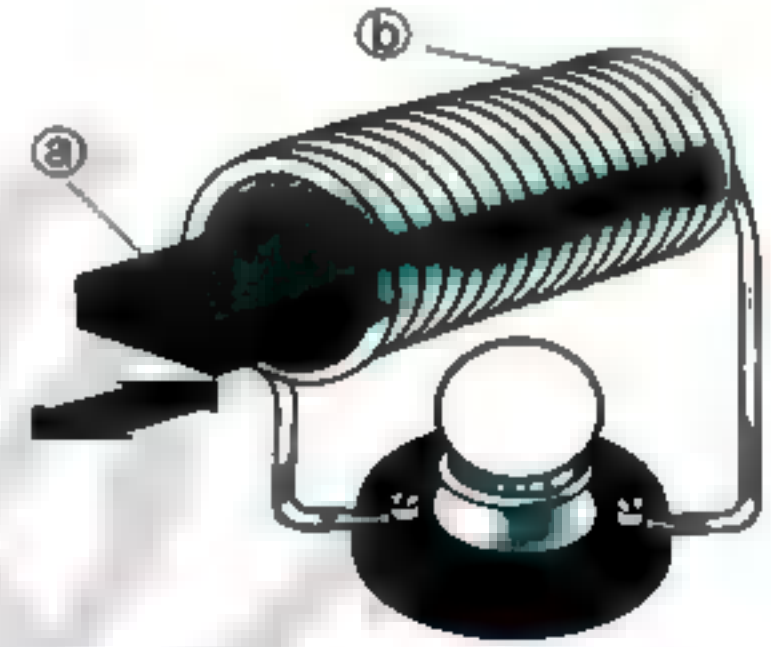
Answer the following questions :

[A] Choose the correct answer :

- The relationship between a cat and a rat is considered as an example of ..... relationship.  
a. predation                      b. mutualism                      c. parasitism
- If you look at a yellow banana through a green glass sheet it seems .....  
a. yellow.                      b. green.                      c. black.
- Cyan, yellow and magenta lights are ..... lights.  
a. complementary                      b. secondary                      c. primary
- ..... can change its colour to be hidden from its enemies.  
a. Frog                      b. Ascaris worm                      c. Bee
- ..... is a magnetic material.  
a. Copper                      b. Iron                      c. Paper

[B] Look at the opposite figure, then answer the following :

- The symbol (a) indicates ..... and the symbol (b) indicates .....
- When (a) moves inside (b) ..... must be generated.



2 [A] Complete the following sentences :

- ..... light is produced by mixing all spectrum colours.
- The solution consists of ..... and .....
- Green plants are considered as ..... organisms.
- ..... worms cause elephantiasis disease.

[B] Write the scientific term :

- The natural area including living organisms and non-living things. (.....)
- A darkened area formed behind an object once light falls on it. (.....)
- The reflection of light on a smooth reflecting surface. (.....)



[A] Put (✓) or (✗) in front of each one and then correct the wrong one :

1. Components of the mixture lose their properties. ( )  
.....
2. Light refracts when it passes from air to water. ( )  
.....
3. Filtration is used to separate oil-water mixture. ( )  
.....
4. The carton is an opaque material. ( )  
.....

[B] Fill each space by a kind of food relationships from between brackets :

( Saprophytism - Mutualism - Commensalism )

1. Nodular bacteria and bean plant. ( ..... )
2. Fungi and dead organisms. ( ..... )
3. Sponge and tiny aquatic living organisms. ( ..... )

[A] Give reasons for :

1. Water is called a common solvent.  
.....
2. The formation of images through narrow holes.  
.....
3. Copper and aluminium are non-magnetic materials.  
.....

[B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Stirring	a. the solubility time decreases.
2. Evaporation	b. to get its required elements for making protein.
3. By increasing the temperature	c. magnetite.
4. Dionaea plant preys insects	d. is used to collect table salt from salt pans.
5. Natural magnet is a black stone called	e. increases the speed of solubility.

1. ....
2. ....
3. ....
4. ....
5. ....



## 14 Alexandria Governorate

East Zone Directorate  
Taymour English Schools

Answer the following questions :

[A] Complete the following sentences :

1. When light falls on a leaf, it makes ..... reflection.
2. Increasing the number of coil turns increases ..... of the electromagnet.
3. Water is called ..... as thousands of substances can dissolve in it.
4. Banana appears yellow because it ..... all light colours except ..... which is .....
5. Similar magnetic poles ..... while opposite poles ..... each other.
6. .... can simulate the colour of the surrounding environment and it is a good example for .....

[B] Mention one function for :

1. Glass prism.  
.....
2. Sponge for tiny aquatic living organisms.  
.....

2 [A] Write the effect of the following on the solubility process :

1. Using low temperature.  
.....
2. Shaking.  
.....
3. Increasing the amount of solute.  
.....

[B] Correct the underlined words in each of the following statements :

1. Refraction of light depends on the type of light. ( ..... )
2. Blue, green and yellow are primary coloured lights. ( ..... )
3. Insectivorous plants need fats and carbohydrates. ( ..... )
4. The dynamo changes heat energy into electric energy. ( ..... )

3 [A] Give reasons for :

1. We cannot distinguish between particles of vinegar and water.  
.....



2. Compass is used inside planes.

**[B] Write the scientific term :**

- Any natural area including living organisms and non-living things. (.....)
- The materials that are not attracted to the magnet. (.....)
- The separation method of a mixture of salt and water. (.....)
- The food relationship between tiger and deer. (.....)
- It is a darkened area which is formed when light falls on an opaque object. (.....)

**4 [A] What happens when ... ?**

- Man is infected with ascaris worm. ....
- You put some iron filings near the center of a magnet and some near to the ends. ....

**[B] Choose the correct answer :**

- Light that can be seen is called .....  
 a. visible spectrum.                      b. infrared.  
 c. ultraviolet                              d. all the previous.
- ..... is a semi-transparent material.  
 a. Glass                                      b. Water  
 c. Tissue paper                              d. Mirror
- The food relationship between beans and nodular bacteria is .....  
 a. commensalism.                      b. parasitism.  
 c. mutualism.                              d. saprophytism.

15

Qaliubya Governorate

Obour Educational Directorate  
Resala Language School

**Answer the following questions :**

**1 [A] Complete the following sentences :**

- The dynamo (electric generator) changes ..... energy into ..... energy.



2  
Part

2. On mixing all the primary light colours (red + blue + green), the ..... colour light is produced.
3. In sugary solution, sugar is the ..... , while ..... is the solvent.
4. .... , ..... and grinding are the ways of mixture formation.
5. The relationship between a cat and a rat is an example of .....
6. Like magnetic poles ..... , while dislike poles ..... each other.
7. The spectrum colours starts with ..... and ends with .....
8. There are two types of light reflection ..... and .....

**[B] What happens when ... ?**

1. You approach the north pole of ■ magnet to the south pole of another magnet.  
.....
2. Predators disappear from an environment including few rabbits.  
.....

**2 [A] Write the scientific term of each of the following statements :**

1. A natural area contains living organisms and non-living things. ( ..... )
2. The space around the magnet in which the magnetic force appears.  
( ..... )
3. A darkened area which is formed as a result of light falling on an opaque body. ( ..... )
4. A food relationship in which saprophytes get their food by decomposing food remains or dead organisms bodies. ( ..... )
5. A substance that consists of more than one type of particles. ( ..... )
6. The substance that disappears in the solvent. ( ..... )

**[B] Give reasons for each of the following :**

1. Iron and cobalt are magnetic materials.  
.....
2. Water is considered as a common solvent.  
.....

**3 [A] Choose the correct answer :**

1. .... is the main source of light.  
a. Lightened candle      b. The Sun      c. The moon      d. Torch
2. .... is attracted to the magnet.  
a. Wood      b. Chalk      c. Iron      d. (b) and (c)







### 3. Decomposer :

## Science Inspectorate

c. yellow



2. .... is used to separate ■ mixture of sand and water.
  - a. Evaporation
  - b. Filtration
  - c. Separating funnel
3. .... takes place by some living organisms to hide from their enemies.
  - a. Commensalism
  - b. Parasitism
  - c. Camouflage
4. .... are examples of decomposers.
  - a. Fungi
  - b. Rabbits
  - c. Plants
5. Dynamo produces ..... energy.
  - a. electric
  - b. light
  - c. heat

**[B] Put (✓) or (x) :**

1. Bilharzia worm is an external parasite. ( )
2. The carton is an opaque material. ( )
3. Salt and water are mixed by stirring. ( )

**4 [A] Correct the underlined words :**

1. The food relationship between cat and rat is a saprophytism. ( ..... )
2. Red light + Green light = Cyan light. ( ..... )
3. Vegetable salad and milk are pure substances. ( ..... )
4. Light travels in curved lines. ( ..... )

**[B] What happens if ... ?**

1. You mix seven spectrum colours together.

.....

2. White light falls on a black opaque object.

.....

**[C] Define the following :**

1. Environmental balance.

.....

2. Visible spectrum.

.....

**17**

**El- Menofia Governorate**

**Shebeen El-Koum Directorate**

**Answer the following questions :**

**Complete the following sentences :**

1. We can see ..... in the sky during the rain falling.



- The basic idea of the electric generator is the changing of the ..... energy into ..... energy.
- The image which is formed by the narrow holes is ..... and .....
- ..... is used to separate a mixture of sand and iron filings.
- ..... and ..... are from the ways of self-defence against predation in living organisms.

**[A] Write the scientific term of each of the following statements :**

- The materials that are attracted to the magnet. ( ..... )
- It contains of more than one type of particles. ( ..... )
- The devoured animal in the predation relationship. ( ..... )
- The process of formation a solution. ( ..... )
- The natural area including living organisms and non-living things. ( ..... )
- A space around the magnet in which the magnetic force appears. ( ..... )

**[B] What happens when ... ?**

- You look at a red apple through a green glass sheet.  
.....
- You place your hand between a light source and the wall.  
.....

**3 [A] Choose the correct answer :**

- Mixing red and green lights produces ..... light.  
a. yellow                      b. cyan                      c. magenta
- The solute in the mixture of chocolate and milk is .....  
a. water.                      b. milk.                      c. chocolate.
- The speed of light in air is ..... that in water.  
a. faster than                      b. slower than                      c. equal to
- When the compass is put beside a wire carrying an electric current .....  
a. no deflection occurs.                      b. the needle deflects.                      c. no correct answer.



[B] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Dinosaur	a. decompose food remains.
2. Fungi	b. get shelter and food from sponge.
3. Tap worms	c. is an example of extinct animals.
4. Tiny aquatic living organisms	d. share the host its digested food.

1. .... 2. .... 3. .... 4. ....

4 [A] Give **reasons** for each of the following :

1. Wood is an opaque material.

.....

2. The compass is an important tool for travellers.

.....

[B] Correct the underlined words in each of the following statements :

1. Some types of mosquitoes infect man with small pox disease. ( ..... )

2. Solubility speed decreases by rising the temperature. ( ..... )

3. The unlike magnetic poles repel each other. ( ..... )

4. Nodular bacteria fix oxygen in an inorganic form. ( ..... )

5. White objects absorb all the lights that fall on them. ( ..... )

18

El-Gharbia Governorate

Central Science Supervision

Answer the following questions :

[A] Complete the following sentences :

1. The magnetic force is most powerful at the ..... of the magnet and disappears at its .....

2. The ecosystem consists of two main components which are ..... and .....

3. Mixing ■ small amount of mud with water forming ..... solution that can be separated by .....

4. Light never transmits through ..... materials and ..... is formed as a result of the falling of light on these materials.

5. On mixing all spectrum colours, the ..... light is produced that can be separated again by using .....



[B] Write the name and the type of the living organism which causes the following :

	The living organism	Its type
1. Elephantiasis :	.....	.....
2. Small pox :	.....	.....
3. Rotten of bread :	.....	.....

2 [A] Choose the correct answer in each of the following :

- ..... is a magnetic material.  
a. Copper                      b. Iron                      c. Aluminium                      d. (a) and (c)
- The dynamo is fixed in the bicycle .....  
a. seat.                      b. pedal.                      c. tire.                      d. lamp.
- Yellow, cyan and magenta light colours are named as ..... light colours.  
a. secondary                      b. purple                      c. primary                      d. rainbow
- Salt and pepper can be mixed by .....  
a. shaking.                      b. grinding.                      c. stirring.                      d. (a) and (b).

[B] Give ..... for each of the following :

- Predation is ■ temporary food relationship.  
.....
- Increasing the number of coil turns of the electromagnet.  
.....

[C] Give an example for each of the following :

- An insectivorous plant : .....
- A living organism undergoes mimicry : .....
- A gaseous-gaseous mixture : .....
- A common solvent : .....

[A] Write the scientific term for each of the following statements :

- A phenomenon appears in the sky when sunlight passes through water droplets during rain falling. (.....)
- The food relationship between tiny aquatic organisms and sponge. (.....)



3. The process by which a solute dissolves in a solvent leading to the disappearance of the solute. ( ..... )
4. The space around the magnet in which the effect of magnetic force appears. ( ..... )

[B] Mention only one use (importance) for each of the following :

1. Evaporation process : .....
2. The electromagnet : .....
3. Compass : .....
4. Ammeter : .....

4 [A] Correct the underlined word in each of the following :

1. The image formed through a narrow hole is upright magnified. ( ..... )
2. If the available food resources become insufficient, friendship appears among preys' population. ( ..... )
3. The white dress appears green when red light strikes it. ( ..... )
4. Predators recycle the chemical elements within the ecosystem. ( ..... )

[B] What happens when ... ?

1. The light passes between two different transparent media.  
.....
2. Grinding of sugar before dissolving it in a liquid.  
.....
3. A cuttlefish is attacked by an enemy.  
.....

[C] Give one difference between regular reflection and irregular reflection of light.  
.....  
.....  
.....

19 El-Dakahlia Governorate

Educational Directorate

Answer the following questions :

[A] Choose the correct answer :

1. Most mixtures formed by dissolving in liquids are ..... mixtures.  
a. identical      b. homogeneous      c. heterogeneous



2  
Part

2. Bacteria is .....
  - a. producer.
  - b. decomposer.
  - c. parasite.
3. Plants get energy from .....
  - a. sunlight.
  - b. oxygen.
  - c. chlorophyll.
4. The dynamo generates ..... energy from mechanical energy.
  - a. thermal
  - b. light
  - c. electric

[B] Give reason for each of the following :

1. Opaque objects form shadows.  
.....
2. The compass used to identify the four geographical directions.  
.....
3. The banana fruit seems to be yellow.  
.....
4. Water is called a common solvent.  
.....

2 [A] Put (✓) or (x) and correct the wrong ones :

1. Yellow, purple and blue lights are primary light colours. ( )  
.....
2. The coil of the dynamo is made up of copper wire. ( )  
.....
3. A separating funnel is used to separate heterogeneous mixtures. ( )  
.....
4. The ecosystem may be large like a pond or small like a desert. ( )  
.....

[B] Write the scientific term for each of the following :

1. The light energy that can be seen. ( ..... )
2. A food relationship between two living organisms that benefit from each other. ( ..... )
3. A chemical substance that doesn't dissolve in a water. ( ..... )
4. Reflection of light on the surface of a white paper in different directions. ( ..... )

3 [A] Complete the following sentences :

1. The magnetic force is most powerful at the ..... of the magnet.
2. We use the ..... to separate the white light into its seven colours.



3. The factories use huge ..... to move the heavy iron blocks.
4. Changing the natural circumstances of the environment in ancient eras leads to dinosaurs .....

**[B] What is the difference between each pair of the following :**

1. Magnetic and non-magnetic materials.

.....  
.....

2. Pure substance and mixture.

.....  
.....

3. Transparent and opaque material.

.....  
.....

**4 [A] What do you expect to happen in the following cases :**

1. Man continues cutting forest trees.

.....

2. Holding a magnet freely.

.....

**[B] Why the pencil inside a glass of water seems broken ?**

.....

**[C] Choose from column (B) what suits it in column (A) :**

(A)	(B)
1. Plastic	a. is the pole which always refers to the south direction of the Earth.
2. Steel	b. is a magnetic material.
3. Compass	c. is the area surrounding the magnet, where the magnetic force appears.
4. The south pole	d. is ■ non-magnetic material.
5. Magnetic field	e. is ■ device used to identify the main four geographical directions.

1. .... 2. .... 3. .... 4. .... 5. ....



Answer the following questions :

[A] Complete the following sentences :

1. Sea water is ....., while sugar is .....
2. In the dynamo the ..... energy changes into ..... energy.
3. The image formed through narrow holes is ..... and .....
4. The like magnetic poles ..... each other, while the dislike magnetic poles ..... each other.
5. Mixture can be formed by shaking, ..... and .....

[B] What happens when ... ?

1. Man interference by polluting the environment.  
.....
2. Cutting the electric current from the electromagnet.  
.....
3. You look at a yellow banana through a blue glass sheet.  
.....

2 [A] Write the scientific term :

1. Natural area including living organisms and non-living things. ( ..... )
2. The light energy that can be seen. ( ..... )
3. An area of the magnet, where magnetic force is most powerful. ( ..... )
4. The materials through which light can't transmit. ( ..... )

[B] Choose from column (B) what suits it in column (A) :

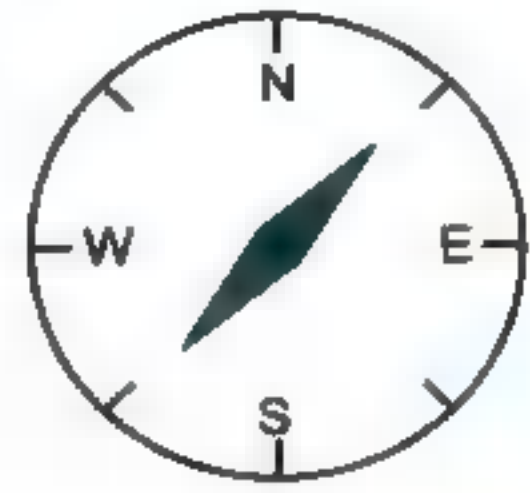
(A)	(B)
1. Fleas	a. causes elephantiasis.
2. Filaria worm	b. causes malaria.
3. A mosquito	c. causes bread mold.
4. Ascaris worm	d. causes anaemia.
	e. cause small pox.

1. .... 2. .... 3. .... 4. ....



3 [A] Look at the opposite figure, then answer the following :

1. The opposite apparatus is known as .....
2. We use it to know .....
3. It contains .....



[B] Give reasons for :

1. Water is a common solvent.  
.....
2. The death of the host is considered a loss to the parasite.  
.....
3. The formation of a shadow.  
.....

[C] Mention their use :

1. Separating funnel :  
.....
2. Glass prism :  
.....

4 [A] Choose the correct answer :

1. Mixing ..... lights produces yellow light.  
a. red + blue    b. green + blue    c. red + cyan    d. red + green
2. You can separate sand from sand-water mixture by .....  
a. filtration.    b. evaporation.    c. magnet.    d. all the previous.
3. .... is a magnetic material.  
a. Copper    b. Aluminium    c. Glass    d. Iron
4. As ..... decreases, the solubility speed increases.  
a. the amount of solvent    b. stirring  
c. temperature    d. the amount of solute
5. The huge electromagnet is used in .....  
a. electric bell.    b. cranes.    c. telephone.    d. car toy.

[B] Mention the kind of food relationship between the following :

1. Nodular bacteria and bean plant. (.....)
2. Drosera and insects. (.....)
3. Wet bread and bread mold fungus . (.....)



Answer the following questions :

[A] Complete the following sentences :

1. The material which doesn't allow light to transmit through is called .....
2. A set that changes the mechanical energy into electric energy known as .....
3. Red light + Green light + Blue light = .....
4. The magnetic pole that always refers to the north direction is called .....
5. Increasing temperature ..... solubility time.
6. .... is from the extinct organisms due to the change in the natural conditions.

[B] Mention the name of the tool that can be used in each case :

1. Separating a mixture of oil and water.

2. Separating of white light into seven colours.

2 [A] Write the scientific term :

1. The organisms which help in getting rid of dead organisms. ( .....
2. The colour lights we get by mixing two colours of the primary coloured lights. ( .....
3. A tool that is used for locating the main four geographical directions. ( .....
4. A process needs the presence of solvent and solute. ( .....
5. The food relationship between two organisms that get benefit from each other. ( .....
6. The natural area including living organisms and non-living things. ( .....

[B] Compare between each of the following :

Points of comparison	Magnetic materials	Non-magnetic materials
Definition :	.....	.....
Examples :	.....	.....



## 3 [A] Choose the correct answer :

- The dynamo is fixed in the bicycle .....  
a. seat.                      b. pedal.                      c. tire.
- The picture formed through a narrow hole is .....  
a. upright minimized.      b. inverted minimized.      c. inverted magnified.
- Which of the following is considered as ■ secondary colour ? .....  
a. Yellow.                      b. Green.                      c. Blue.
- We can see things as ■ result of ..... of light rays.  
a. reflection                      b. refraction                      c. absorption
- The animal that devours another animal is called .....  
a. parasite.                      b. host.                      c. predator.
- An example of decomposers is .....  
a. fungus.                      b. rabbit.                      c. plant.

## [B] What happens in each of the following ... ?

- When ■ magnet is hanged to move freely.  
.....
- Cutting down of trees.  
.....

## 4 [A] Put (✓) or (x) :

- Filtration is used to separate soluble solid materials. ( )
- Some living organisms can change their colour to simulate the colours of their surrounding environment where they live to hide from their enemies. ( )
- The balance of ecosystem occurs due to the interference of man. ( )

## [B] Give reasons for :

- The moon cannot be considered as a source of light.  
.....
- Air is considered a mixture.  
.....

## [C] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Ascaris worm	a. can be separated by using a magnet.
2. Pure water	b. internally parasitism.
3. Iron filings and sand mixture	c. causes anaemia.
4. A food relationship between man and liver worm	d. pure substance.
	e. externally parasitism.

- .....
- .....
- .....
- .....



Answer the following questions :

**Complete the following sentences :**

1. Mixtures can be formed by shaking, ..... or .....
2. Transparent and translucent objects have the colour of the light which .....  
but opaque objects have the colour of light they .....
3. Ecosystem is a natural area that contains ..... and .....
4. Like magnetic poles ..... , while unlike poles ..... each other.

**[A] Choose the correct answer :**

1. Living organisms use ..... to escape from their enemies.  
a. predation      b. saprophytism      c. mimicry      d. symbiosis
2. The natural magnet is one of the ..... ores.  
a. copper      b. iron      c. carbon      d. aluminium
3. Bilharzia worms are considered as ..... organisms.  
a. producer      b. consumer      c. decomposer      d. parasitic
4. .... is one of the primary colours.  
a. Green      b. Magenta      c. Yellow      d. Cyan

**[B] Give reasons for :**

Shadow is formed for opaque objects.

**[A] Write the scientific term :**

1. A food relationship between two different types of living organisms in which they benefit from each other. ( ..... )
2. The space around a magnet in which the magnetic force appears through. ( ..... )
3. Extinct organism as a result of changing the natural circumstances of the environment. ( ..... )
4. The bouncing of light when it falls on a bright surface. ( ..... )

**[B] What happens when ... ?**

Passing white light through a glass prism.



4 [A] Choose from column (B) what suits it in column (A) :

(A)	(B)
1. Filaria worm	a. is used to move iron blocks.
2. Solvent	b. conveys small pox to man.
3. Electromagnet	c. causes elephantiasis to man.
4. Wood	d. is the substance in which the solute dissolves.
5. Bread mould fungus	e. is a saprophytic organism.
	f. is a non-magnetic material.

1. ....

2. ....

3. ....

4. ....

5. ....

[B] In the opposite figure :

The tool used in separating this mixture is ..... , and it is used in separating .....



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Damietta Governorate

Directorate of Education

Answer the following questions :

[A] Complete the following statements :

1. The ecosystem is a natural area that contains ..... and .....
2. The solution is a mixture of ..... and .....
3. The relationship between sponge and the tiny aquatic living organisms is ....., while the relationship between nodular bacteria and leguminous plants is .....
4. In the electromagnet, the ..... energy changes into ..... energy.
5. Solid materials can be mixed by ..... or .....

[B] Correct the underlined words in each of the following statements :

1. Fungi that feed on the dead organisms are called parasites. ( ..... )
2. When a red light strikes a white object, the object appears cyan.  
( ..... )
3. Natural magnet is a red rock. ( ..... )



**2 [A] Write the scientific term for each of the following :**

1. A device that used to locate the four main geographical directions.  
( ..... )
2. A device that used to change the mechanical energy into electric energy.  
( ..... )
3. The space around the magnet in which the effect of magnetic force appears.  
( ..... )
4. A phenomenon in which the harmless organisms imitate other harmful or poisonous organisms to frighten their enemies and escape from them.  
( ..... )
5. Materials that are not attracted to the magnet.  
( ..... )

**[B] Give reasons for :**

1. The pen appears broken in a glass of water.  
.....
2. Air is considered a mixture.  
.....
3. Drosera and dionaea are known as insectivorous plants.  
.....

**3 Choose the correct answer :**

1. The salt solution is ..... mixture.  
a. a homogeneous      b. a heterogeneous      c. solid      d. gas
2. Ascaris worm is a .....  
a. decomposer.      b. producer.      c. parasite.      d. predator.
3. The solubility speed increases when ..... decreases.  
a. temperature      b. stirring  
c. the amount of solvent      d. the amount of solute
4. From the magnetic materials is .....  
a. aluminium.      b. iron.      c. copper.      d. wood.
5. Which of the following is considered as ■ secondary colour ? .....  
a. Yellow.      b. Green.      c. Blue.      d. Red.
6. Light travels in ..... lines.  
a. curved      b. broken      c. straight      d. zigzag
7. Filaria worm causes ..... disease to man.  
a. malaria      b. small pox      c. bilharzia      d. elephantiasis



8. We can see objects as a result of ..... of light rays.

- a. refraction                      b. reflection  
c. analysis                        d. absorption

4 [A] What is meant by each of the following ... ?

1. Environmental balance.

2. Semi-transparent materials.

[B] What happens if ... ?

1. A chameleon feels danger.

2. You approach a north pole of a magnet to a south pole of another magnet.

3. Mixing the seven spectrum colours.

[C] How can you separate the following mixtures ?

1. A mixture of salt in water.

2. A mixture of sand and water.

3. A mixture of iron nails and sand.

24 Kafr El-Sheikh Governorate

Directorate of Education

Answer the following questions :

Complete the following sentences :

1. Red, green and blue coloured lights are called .....
2. Like magnetic poles ....., while unlike poles ..... each other.
3. On mixing all the seven spectrum colours, the ..... is produced.
4. A mixture can be formed by stirring, ..... or .....
5. .... + ..... Solubility process → Solution.

Choose the correct answer :

1. Green plants are considered as .....

- a. producers.                      b. parasites.                      c. decomposers.



2. Mosquitoes cause ..... disease to man.
  - a. elephantiasis
  - b. malaria
  - c. bilharziasis
3. A salty solution is considered a/an ..... mixture.
  - a. homogeneous
  - b. heterogeneous
  - c. identical
4. We can see things as a result of ..... of light rays.
  - a. refraction
  - b. reflection
  - c. absorption
5. .... can change its colour to stimulate the colours of the surrounding environment.
  - a. Bee
  - b. Chameleon
  - c. Ascaris worm
6. The coil of a dynamo is made of ..... wire.
  - a. copper
  - b. graphite
  - c. iron
7. .... is used to separate a mixture of oil and water.
  - a. Magnetic attraction
  - b. Evaporation
  - c. Separating funnel
8. The animal that devours another animal is called a .....
  - a. prey.
  - b. host.
  - c. predator.

#### [A] Write the scientific term :

1. The change of light rays directions when they transmit through the separating surface between two different transparent media . ( ..... )
2. The darkened area formed as a result of the falling of light on an opaque object. ( ..... )
3. The space around the magnet in which the magnetic force appears. ( ..... )
4. Materials which you can see objects clearly behind them. ( ..... )
5. A tool that is used for locating the four main geographical directions. ( ..... )
6. The relationship between two organisms that benefit from each other. ( ..... )

#### [B] Give reasons for :

1. Water is considered as a common solvent.

2. Images can be formed by using narrow holes.

#### 4 [A] Put (✓) or (x) :

1. There is no relationship between living organisms. ( )
2. Carton paper is an opaque object. ( )
3. Filtration and magnetic attraction are ways for mixture formation. ( )



4. Magnetism is concentrated in the middle of the magnet. ( )  
 5. The moon seems luminous because it reflects sunlight. ( )  
 6. A natural magnet is one of the iron ores. ( )

[B] How can the following mixtures be separated ?

1. Sand and water.

2. Iron nails in sand.

25 El-Behira Governorate

El-Safwa Private Schools

Answer the following questions :

1 Complete the following sentences :

1. Opaque objects ..... passing of light, while transparent objects ..... passing of light.
2. .... is from internal parasites, while ..... is from external parasites.
3. .... and ..... are from methods of mixture formation.
4. Predation process ..... the number of preys.
5. .... is pure substance.

2 [A] Choose the correct answer :

1. In dynamo, kinetic energy changes to ..... energy.  
 a. electric      b. light      c. magnetic      d. sound
2. All the following are from transparent materials except .....  
 a. carton      b. glass.      c. water.      d. air.
3. By mixing all spectrum colours ..... colour is produced.  
 a. magenta      b. black      c. white      d. blue
4. Spoon seems broken in a cup containing water due to .....  
 a. light reflection.      b. light splitting.  
 c. light refraction.      d. light travels in straight line.

[B] Compare between :

P.O.C	Magnetic materials	Non-magnetic materials
Definition :	..... ..... .....	..... ..... .....
Examples :	.....	.....



## 3 [A] Write the scientific term :

1. Returning back of light rays when they fall on ■ plane mirror. ( ..... )
2. The space around a the magnet and the magnetic force appears on it. ( ..... )
3. The substance that dissolves in the solvent. ( ..... )
4. It is natural area including living organisms and non-living things. ( ..... )

## [B] Give reasons for :

1. Red apple appears black through blue glass sheet.  
.....
2. Some living organisms can make mimicry or camouflage.  
.....

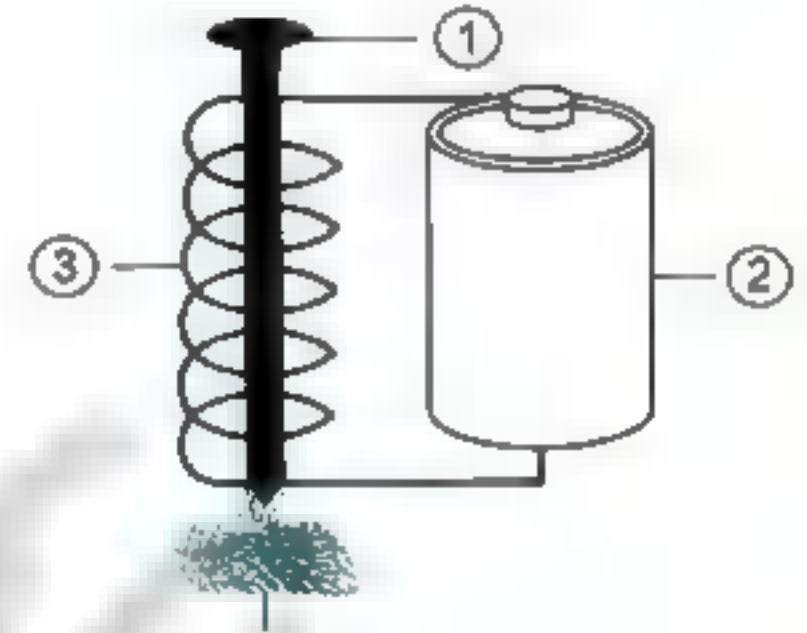
## 4 [A] Look at the opposite figure then answer the following :

## 1. The figure represents .....

- ① Points to .....
- ② Points to .....
- ③ Points to .....

## 2. What happens if ... ?

You near some iron filings to the figure.  
.....



## [B] Write the name of tools which used in :

1. Knowing the four directions. ( ..... )
2. Separation of a mixture of oil and water. ( ..... )

## Answer the following questions :

## Complete the following sentences :

1. The idea of working of the electromagnet is the change of ..... energy into ..... energy.
2. In salty solution salt is the ..... , while water is the .....
3. Plants that feed on some insects are known as ..... plants such as .....
4. Like magnetic poles ..... whereas dislike poles ..... each other.



## 2 [A] Write the scientific term :

1. The regions of the magnet where the magnetic force is most powerful. ( ..... )
2. A darkened area that formed when light falls on an opaque object. ( ..... )
3. The natural area including living organisms and non-living things. ( ..... )
4. Substances that are made up of only one type of identical particles. ( ..... )
5. The light energy that can be seen. ( ..... )

## [B] Mention the function of each of the following :

1. Glass prism.

.....

2. Filter paper.

.....

## 3 [A] Choose the correct answer :

1. When the magnet is hanged freely it will take the direction .....  
a. north and east.      b. north and south.      c. west and east
2. The properties of the image which formed through narrow holes are .....  
a. small and inverted.      b. small and upright.      c. large and inverted.
3. .... ejects a black colour fluid in the surrounding water when attacked by its enemies.  
a. Frog      b. Butterfly      c. Sepia
4. When you mix two or more kinds of matter together, the produced matter is called .....  
a. element.      b. compound.      c. mixture.

## [B] What happens in each case of the following ... ?

1. Approaching a magnet to ■ mixture of sand and iron nails.

.....

2. When you look at a spoon put in a beaker contains water.

.....

## 4 [A] Correct the underlined words :

1. Mosquitoes infect man with elephantiasis. ( ..... )



2. **Newton** is the scientist who discovered that the magnetic energy can be changed into electric energy. ( ..... )
3. The solubility speed of solids **decreases** by grinding. ( ..... )
4. In the **regular** reflection, the light rays are reflected in different directions. ( ..... )

[B] Give reasons for each of the following :

1. Aluminium, copper and glass are non-magnetic materials.

.....

2. Air is considered a mixture.

.....

Answer the following questions :

[A] Complete the following statements :

1. The similar magnetic poles ..... and the opposite poles ..... each other.
2. Dynamo converts ..... energy into ..... energy.
3. The ecosystem consists of ..... and .....
4. .... is a common solvent.

[B] Give reasons for each of the following :

1. Sugar is a pure substance.

.....

2. A pencil seems broken when it is placed in a glass cup of water.

.....

Write the scientific term :

1. A set is used to change electric energy into magnetic energy. ( ..... )
2. It is the bouncing (returning back) of light rays. ( ..... )
3. It is the balance among the components of the ecosystem. ( ..... )
4. A food relationship between lion and deer. ( ..... )

3 Choose the correct answer :

1. Light transmits in ..... lines.

a. broken

b. curved

c. straight



2. We can distinguish between the components of .....
- a. homogeneous mixture.      b. solution.      c. heterogeneous mixture.
3. Wood is a an ..... material.
- a. transparent      b. opaque      c. semi-transparent
4. .... is considered as a mixture.
- a. Milk      b. Baking soda      c. Distilled water

4 [A] Correct the underlined words :

1. Opaque material allows most light to pass through it. ( ..... )
2. Cyan, yellow and magenta are primary coloured lights. ( ..... )
3. Fleas cause anaemia to human. ( ..... )
4. Copper and iron are non-magnetic materials. ( ..... )

[B] Match each mixture with the suitable method of separation :

(A)	(B)
1. Salty solution	a. by filtration.
2. Sand and water	b. by evaporation.
3. Iron filings and sand	c. by separating funnel.
4. Mixture of oil and water	d. by magnetic attraction.
	e. by stirring.

1. ....      2. ....      3. ....      4. ....

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El-Minia Governorate

Kawmia Language School

Answer the following questions :

[A] Choose the correct answer :

1. .... ejects ■ black colour fluid in the surrounding water when attacked by its enemies.
- a. Frog      b. Sepia      c. Chameleon
2. Red, green and blue lights are ..... lights.
- a. primary      b. secondary      c. complementary
3. When a magnet is hanged freely, its north pole refers towards the .....
- a. east.      b. west.      c. north.



2  
Part

4. The carton paper is a/an ..... material.  
a. opaque                      b. transparent                      c. semi-transparent
5. The substance which dissolves in a solvent is called .....  
a. solute.                      b. mixture.                      c. solution.

[B] Compare between :

Points of comparison	Regular reflection	Irregular reflection
Definition :	..... ..... .....	..... ..... .....
Examples :	.....	.....

2 [A] Correct the underlined words in each of the following statements :

1. Wood is attracted to the magnet. ( ..... )
2. Electric motor converts kinetic energy into electric energy. ( ..... )
3. Solubility decreases by shaking and rising the temperature. ( ..... )

[B] Mention the kind of food relationship between each of the following :

1. Nodular bacteria and bean plant. ( ..... )
2. Sponge and tiny aquatic living organisms. ( ..... )
3. Bilharzia worm and human. ( ..... )

[C] Mention the function of :

Electric magnet.

.....

.....

3 [A] Write the scientific term :

1. The space around a magnet in which the magnetic force appears. ( ..... )
2. A natural area which includes living organisms and non-living things. ( ..... )
3. The change of light rays direction when they transmit through the separating surface between two different transparent media. ( ..... )
4. A tool that is used for locating the main four geographical directions. ( ..... )



[B] Give **reasons** for :

1. Air is considered as a mixture.

2. Predation is a temporary food relationship.

4 [A] Choose from (B) which is suitable for (A) :

(A)	(B)
1. Salty solution	a. is called common solvent.
2. Oil and water mixture	b. can be separated by a magnet.
3. Iron filings and sand mixture	c. can be separated by evaporation.
4. Pure water	d. can be separated by separating funnel.

1. ....

2. ....

3. ....

4. ....

[B] What happens if ... ?

1. Absence of saprophytic organisms.

2. White light passes through a glass prism.



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# 2016/2017

1

**1 A. Complete the following sentences:**

1. Bees which look like wasps undergo \_\_\_\_\_ phenomenon but chameleon undergoes \_\_\_\_\_ phenomenon to protect themselves from their enemies.
2. ★ A huge dynamo is used to generate a large amount of electricity used for \_\_\_\_\_ and \_\_\_\_\_.
3. ★ The magnet has the most powerful attraction at its \_\_\_\_\_.

**B. ★ What is meant by magnetic field?**

**2 A. Put (✓) in front of the correct statements and (X) in front of the false ones:**

1. ★ Aluminum is attracted to the magnet. ( )
2. Lice, bugs and ascaris worm are external parasites. ( )
3. We can use the evaporation process to separate crushed coffee from water. ( )
4. ★ Magenta is a secondary light color. ( )

**B. Give one example for each of the following:**

- ### 1. ★ A source of light

- ## 2. A method of forming mixture

**Write the scientific term for each of the following:**

1. Substances made of more than one type of particles.
2. The organisms which clean the earth's surface from dead bodies.
3. ★ It is the change in the path or direction of light when it passes from air to water.
4. A method used to form salt-pepper mixture.

**4 A. Choose the correct answer in each of the following:**

1. Table salt is collected by evaporation of .....
  - a. distilled water
  - b. mineral water
  - c. seawater
  - d. all the previous answers
2. ★ Light is reflected ..... when it falls on a smooth and shiny reflecting surface.
  - a. regularly
  - b. irregularly
  - c. and refracted
  - d. and scattered



## Worksheets &amp; Exams

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3. ★ ..... is considered a primary light color.  
a. Yellow                      b. Red                      c. Magenta                      d. Cyan
4. The relation between cat and rat is .....  
a. predation                      b. mutualism                      c. commensalism                      d. saprophytism

## B. Give a reason for each of the following:

1. Water is considered a common solvent.  
.....
2. ★ Some materials are called non-magnetic materials.  
.....

## 2 Cairo – Experimental L.S.

## 1 A. Complete the following sentences:

1. ★ The tissue paper is an example of ..... materials, while a piece of rock is an example of ..... materials.
2. ★ The like poles ..... each other, whereas the unlike poles ..... each other.
3. The relationship between nodular bacteria and plants is an example of ..... relationship.
4. Solubility time decreases by ..... the temperature of the solution.

## B. Mention one use for each of the following:

1. Separating funnel  
.....
2. ★ Compass  
.....

## 2 A. Write the scientific term for each of the following:

1. ★ The materials that are not attracted to the magnet. ( ..... )
2. ★ The space around the magnet in which its magnetic force appears. ( ..... )
3. It is a food relationship among living organisms in which one living organism devours another one. ( ..... )
4. It is any natural area including living organisms and nonliving things. ( ..... )
5. It is the substance which dissolves in a solvent. ( ..... )

## B. What happens when ...?

1. ★ The blue color is mixed with red color.  
.....
2. Bacteria completely disappear.  
.....





### 3 A. Correct the underlined words in the following statements:

1. ★ Light travels in curved lines. ( )
2. ★ Light rays reflect in different directions in the regular reflection. ( )
3. ★ Mixing green and blue colors produces red color. ( )
4. Mushroom is from internal parasites. ( )
5. We separate between salt and water by magnetic attraction. ( )

### B. Give a reason for each of the following:

1. The frog changes its color.  
.....
2. ★ A spoon appears broken when you put it in a transparent cup of water.  
.....

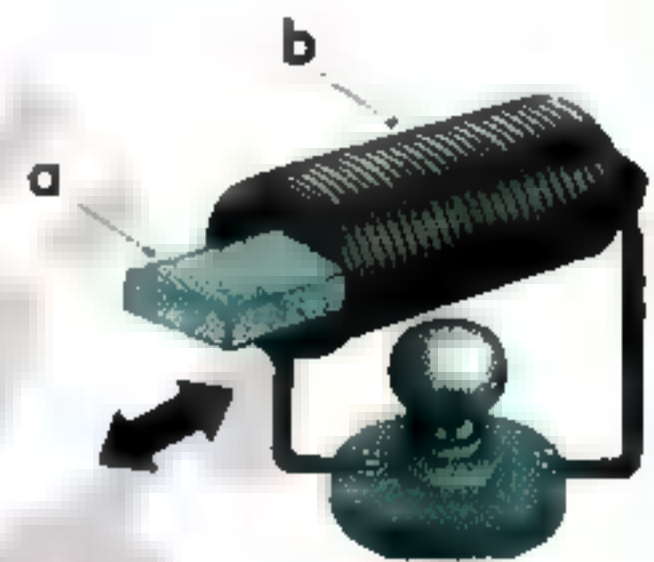
### 4 A. Choose the correct answer:

1. The process of photosynthesis is done by ■ (producer - decomposer - consumer) living organism.
2. Among the insectivorous plants is (bean - sunflower - drosera).
3. (Mimicry - Commensalism - Camouflage) is the ability of some living organisms to change their color.
4. ★ Milk, concrete and tomato sauce are considered a (mixture - pure substance - solution).

### B. ★ Look at the following figure, then complete:

a. .... b. ....

1. This figure represents .....
2. The apparatus is used to change ..... energy into ..... energy.



3

Calro Public L.S.

### 1 A. Complete the following sentences:

1. ★ Mixing ..... and ..... colors produces magenta.
2. Solution consists of ..... and .....
3. Among the types of symbiosis are ..... and .....
4. ★ The like poles ....., while the unlike (different) poles .....

### B. Write the scientific term for each of the following:

1. ★ The area in the magnet, where the magnetic force is the most. ( )
2. The animal which devours another animal. ( )
3. The substance that contains only one type of particles. ( )
4. ★ The tool (device) that converts electric energy into magnetic energy. ( )



#### 4 Cairo – Madad Educational Directorate

### 1 Complete the following sentences:

1. ★ ..... and ..... are examples of transparent materials.
2. ★ The primary color lights are red, ..... and .....
3. ★ Among the devices which use the electromagnet are ..... and .....
4. Solid and liquid materials can be mixed by ..... or .....

### 2 A. Choose the correct answer:

1. ★ The pen seems broken in a glass filled with water due to (light reflection - light refraction - light separation).
2. (Evaporation - Filtration - Separating funnel) is used to separate a mixture of oil and water.
3. Among the examples of pure substances is (distilled water - concrete - milk).
4. The food relationship between nodular bacteria and bean plant is an example of (predation - mutualism - parasitism).

### B. What happens when ...?

1. ★ Mixing the red light with the blue light.
2. ★ The north pole of a magnet comes nearer to the south pole of another magnet.

### 3 A. Write the scientific term for each of the following:

1. ★ The space around the magnet in which the magnetic force appears. (.....)
2. Any natural area including living organisms and non-living things. (.....)
3. ★ The device that changes the mechanical energy into electric energy. (.....)
4. ★ The darkened area which is formed as a result of falling of light on ..... opaque object. (.....)

### B. Give a reason for each of the following:

1. ★ Copper and aluminum are among the nonmagnetic materials.
2. Cuttlefish ejects black fluid in water when it is attacked by enemies.

### 4 A. Put (✓) in front of the right sentence and (X) in front of the wrong sentence:

1. ★ Light travels in curved lines. ( )
2. Water is called a common solvent. ( )
3. ★ The electromagnet loses its magnetic force by cutting the electric current. ( )
4. Dinosaur is an example of the extinct animals due to changing of the natural conditions in the environment. ( )
5. Stirring decreases the solubility speed. ( )



## Worksheets &amp; Exams

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B. Match from column (A) what suits in column (B):

(A)	(B)
1. Filaria worms (.....)	a. convey smallpox
2. Mosquitoes (.....)	b. cause elephantiasis
3. Fleas (.....)	c. cause malaria
	d. cause bread mould

## 5 Cairo - Science Inspectorate

1 A. Complete the following:

- ★ Light can pass easily through .....
- ★ The like poles ..... while the unlike poles .....
- ★ Prism separates white light into ..... colors .
- Mixtures can be formed by shaking or .....

B. Put (✓) or (X) :

- Ascaris worm causes anemia. ( )
- Salty solution can be separated by using a magnet. ( )
- ★ Light is a form of energy. ( )

2 A. Write the scientific term for each of the following:

- ★ The bouncing of light rays. (.....)
- ★ The two ends of the magnet. (.....)
- The natural area that contains living and non-living things. (.....)
- ★ A set used for locating the four geographical directions. (.....)
- A darkened area formed when light falls on an opaque object. (.....)

B. Give a reason for each of the following:

- ★ Aluminum is a nonmagnetic material.
- ★ The green color is a primary color.

3 A. Choose the correct answer:

- ★ Coil of dynamo is made of (plastic - copper - wood).
- ★ Light can't pass through (glass - transparent - opaque) materials.
- ★ (Iron - Wood - Air) is a magnetic material.
- ★ (White - Black - Red) opaque bodies reflect all light colors.
- In salty solution, salt is a (solvent - solute - ray).

B. Give one example for:

- A predator.
- A solid-liquid mixture.



#### 4 A. Correct the underlined words in the following statements:

1. ★ Cyan and magenta are primary colors. ( )
2. Solubility speed decreases by stirring. ( )
3. Air is a pure substance. ( )
4. ★ Red + green + blue = cyan light. ( )
5. Evaporation is used to separate sand from water. ( )

#### 5 Cross the odd word out:

1. ★ iron - nickel - paper ( )
2. ★ glass - air - carton ( )
3. fungi - butterfly - bacteria ( )

#### 6 Cairo - East Nasr City Edu. Zone - El-Manhal Lang. School

#### 1 A. Choose the correct answer:

1. ★ The different magnetic poles ..... each other.  
 a. attract                      b. repel                      c. like
2. ★ The electromagnet changes electric energy into ..... energy.  
 a. kinetic                      b. magnetic                      c. thermal
3. The relationship between wolf and sheep is .....  
 a. mutualism                      b. parasitism                      c. predation
4. To separate a mixture of sand and iron filings use .....  
 a. filtration                      b. magnetic attraction                      c. shaking

#### B. Put (✓) or (X) :

1. ★ Electric bell contains dynamo. ( )
2. Solubility speed is not affected by stirring. ( )
3. Bacterium is a decomposer. ( )
4. ★ Light travels in straight lines. ( )

#### 2 A. Write the scientific term for each of the following:

1. The relation between two organisms that benefit from each other. ( )
2. ★ The space around the magnet in which the magnetic force appears. ( )
3. ★ The materials behind which you can see objects clearly. ( )
4. A set used to separate the oil from oil-water mixture. ( )
5. ★ The materials which are attracted to the magnet. ( )
6. The natural area including living organisms and nonliving organisms. ( )

#### B. Give a reason for each of the following:

1. ★ The red apple is not red.
2. Milk is a mixture.



## Worksheets &amp; Exams

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## 3 Complete the following sentences:

1. A mixture can be formed by ..... and .....
2. ★ ..... and magenta are secondary light colors.
3. ★ As the light falls on the green grass, it absorbs ..... colors except .....
4. ★ Dynamo changes from ..... energy to ..... energy.
5. ★ Red light + ..... + ..... forms white color.
6. .... is one of the animal predators, while ..... is one of the insectivorous plants.
7. The solution consists of ..... and .....

## 4 A. Correct the underlined words in the following statements:

1. ★ The magnet is most powerful at the middle. (.....)
2. Chameleon hides from its enemies by saprophytism. (.....)
3. ★ The opaque materials allow some of light to pass through them. (.....)
4. Bilharzia and liver worm are external parasites. (.....)

## B. ★ Choose from column (B) what suits in column (A):

(A)	(B)
1. Spectrum colors.	a. The relation between decomposers and dead bodies.
2. Saprophytism.	b. A transparent material.
3. Water	c. It causes malaria.
4. Mosquito	d. The seven colors which the sunlight is made up of.

## 7 Giza - North Giza Educational Directorate

## 1 A. Complete the following sentences:

1. ★ Light travels in ..... lines.
2. ★ ..... is the space around the magnet where its magnetic force appears.
3. .... is the solvent in chocolate milk solution.
4. ★ Electromagnet changes ..... energy into ..... energy.
5. ★ ..... is the darkened area formed as a result of light falling on an opaque object.
6. Bilharzia worms are ..... parasites.

## B. ★ What is the importance of magnetic compass?

## 2 A. Correct the underlined words in the following statements:

1. ★ Like magnetic poles attract each other. (.....)
2. The relation between lion and deer is symbiosis. (.....)
3. ★ Wood and carton are transparent materials. (.....)
4. ★ Spectrum colors start with orange. (.....)





**B. Mention the kind of food relationship between:**

1. Nodular bacteria and bean plant.
2. Mosquito and human.

**3 A. Give a reason for each of the following:**

1. Air is a mixture.
2. ★ Iron is a magnetic material.

**B. Choose the correct answer:**

1. ★ (Glass prism - Magnet - Mirror) is a device that separates white light into seven spectrum colors.
2. ★ Red, green and blue are (secondary - primary - complementary) light colors.
3. Green plants are (producers - consumers - decomposers).
4. ★ (Iron - Wood - Plastic) is a magnetic material.

**4 A. Write the scientific term for each of the following:**

1. ★ The materials that allow some light to pass through. ( )
2. The process of heating a salty solution to separate salt from water. ( )
3. ★ A beautiful phenomenon that appears in the sky after rains. ( )
4. The animal which devours another animal. ( )

**B. How can you separate the following mixtures...?**

1. A mixture of iron filings and sand.
2. A mixture of oil and water.

8

Qalubia - Science Inspectorate

**1 A. Choose the correct answer:**

1. ★ Light transmits in (curved - broken - straight - zigzag) lines.
2. ★ The materials which let most light pass through are called (transparent - translucent - semi-transparent - opaque).
3. ★ All the following colored lights are primary except (yellow - green - red - blue).
4. Mosquitoes cause (elephantiasis - smallpox - malaria - bilharziasis) disease to man.
5. Without the saprophytic organisms earth's surface would be covered with (plants - living organisms - animals - dead organisms).
6. ★ When you look at a red apple from a yellow glass sheet, the apple seems (black - red - blue - yellow).

**B. Give a reason for each of the following:**

1. ★ A spoon appears broken when you put it in a transparent cup of water?
2. Air is a mixture.





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## 2 A. Complete the following sentences:

1. ★ Like magnetic poles ..... whereas unlike poles .....
2. Methods of formation of a mixture ■ shaking, ..... and .....
3. ★ The electromagnet converts ..... energy into ..... energy.
4. ★ Red light + ..... + ..... forms white light.
5. Solution ■ a mixture that consists of ..... and .....
6. Types of food relationships between living organisms include predation, ..... and .....

## B. Mention one use for each of the following:

1. ★ Electric generator (dynamo).
2. ★ Electromagnet.

## 3 A. Write the scientific term for each of the following:

1. ★ A darkened area formed behind an object once light falls on it. (.....)
2. ★ The space around a magnet in which the magnetic force appears. (.....)
3. A natural area including living organisms and non-living things. (.....)
4. A food relationship in which an organism devours the other. (.....)
5. ★ The materials that get attracted to the magnet. (.....)
6. ★ The color produced by mixing red and green colors. (.....)

## B. Choose from column (B) what suits in column (A):

(A)

1. Sand and water.
2. Oil and water.
3. Paper clips and sand.
4. Salt solution.

(B)

- a. get separated by a magnet.
- b. get separated by evaporation.
- c. get separated by separating funnel.
- d. get separated by filtration.

## 4 A. Correct the underlined words in the following statements:

1. Milk is a pure substance. (.....)
2. Oil is a common solvent. (.....)
3. ★ When the light falls on a mirror, it gets refracted. (.....)
4. Ascaris worm is an external parasite. (.....)
5. ★ Magnetic force is concentrated at the middle of the magnet. (.....)
6. Salty solution is a heterogeneous mixture. (.....)

## B. Choose the odd word out, then mention the scientific term for the others:

1. (Flaria worm - Mosquito - Liver worm - Bilharzia worm) (.....)  
a. Odd word: ..... b. Scientific term: .....
2. (Chameleon - Butterfly - Cuttlefish - Drosera) (.....)  
a. Odd word: ..... b. Scientific term: .....



## 9 Menofia - Shebeen El-Koomi Directorate

### 1 Complete the following sentences:

1. ★ We can ..... in the sky while the rain falls.
2. ★ The basic idea of the electric generator is the changing of ..... energy into ..... energy.
3. ★ The image formed by the narrow holes is ..... and .....
4. .... is used to separate a mixture of sand and iron filings.
5. .... and ..... are among the ways of self-defence against predation in living organisms.

### 2 A. Write the scientific term for each of the following:

1. ★ The materials that are attracted to the magnet. (.....)
2. It contains more than one type of particles. (.....)
3. The devoured animal in the predation relationship. (.....)
4. ★ The process of formation of ■ solution. (.....)
5. The natural area including living organisms and nonliving things. (.....)
6. ★ A space around the magnet in which the magnetic force appears. (.....)

### B. What happens when...?

1. ★ You look at a red apple through a green glass sheet.
2. ★ You place your hand between a light source and the wall.

### 3 A. Choose the correct answer:

1. ★ Mixing red and green lights produces (yellow - cyan - magenta) light.
2. The solute in the mixture of chocolate and milk is (water - milk - chocolate).
3. ★ The speed of light in air is (faster than - slower than - equal to) that in water.
4. ★ When the compass is put beside ■ wire carrying electric current, (no deflection occurs - the needle deflects - no correct answer) .

### B. Choose from column (B) what suits in column (A):

(A)	(B)
1. Dinosaurs	a. decompose food remains.
2. Fungi	b. get shelter and food from sponge.
3. Tapeworms.	c. are an example of extinct animals.
4. Tiny aquatic living organisms	d. share its digested food with the host.

1. .... 2. .... 3. .... 4. ....



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## 4 A. Give a reason for each of the following:

- ★ Wood is an opaque material.
- ★ The compass is an important tool for travellers.

## B. Correct the underlined words in the following statements:

- Some types of mosquitoes infect man with smallpox disease. ( )
- Solubility speed decreases by raising the temperature. ( )
- ★ The unlike magnetic poles repel each other. ( )
- Nodular bacteria fix oxygen in an inorganic form. ( )
- ★ White objects absorb all the lights that fall on them. ( )

## 10 Dakahla - Dakahla Educational Directorate

## 1 A. Choose the correct answer:

- The solute in the mixture of chocolate and milk is .....  
a. milk                      b. water                      c. chocolate
- ★ The dynamo generates ..... energy from mechanical energy.  
a. electrical                      b. light                      c. thermal
- ..... ejects a black color fluid in the surrounding water when attacked by its enemies.  
a. Frog                      b. Sepia                      c. Butterfly
- ★ Strawberry fruit seems to be in red color because it reflects only the ..... color.  
a. green                      b. red and green                      c. red

## B. Give a reason for each of the following.

- ★ Rainbow can be seen after heavy rain-falling.
- Green plants can make their own food.
- The parasite doesn't kill its host.
- Solution is a type of mixture.

## 2 A. Put (✓) or (X) and correct the wrong ones:

- ★ The picture formed in the plan mirror is inverted. ( )
- ★ Object's shadow is formed because light travels in curved lines. ( )
- ★ Transparent objects have the same color of the light that doesn't travel through them. ( )
- Vegetables salad is considered a homogenous mixture. ( )
- Mixing red, green and blue colors produces white color. ( )

## B. Write the scientific term for each of the following:

- A food relationship between two organisms, one benefits while the other neither benefits nor gets harmed. ( )





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2. ★ The colors we get by mixing two colors of the primary light colors. ( )
3. ★ The tool that is used for locating the main four geographic directions. ( )
4. Dissolving carbon dioxide gas in a sugary solution. ( )

### 3 A. Complete the following sentences:

1. Increasing ..... reduces solubility time.
2. ★ The prism separates sunlight into .....
3. ★ Red light + green light + blue light = .....
4. Fungi are considered ..... living organisms.

### B. Answer the following questions:

1. ★ How can electricity make our life different? Write a paragraph.
2. How the following mixture can be separated:
  - a. paper clips and flour
  - b. chalk and water solution
  - c. sugar solution

### 4 A. What is meant by...? 1. Ecosystem. 2. Environmental balance.

### B. Show the type of food relationship illustrated in the following:



## 11 Behera - Kafr El-Dawar E. Zone - El Safwa Private School

### 1 Complete the following sentences:

1. ★ Opaque objects ..... light, while transparent objects ..... light.
2. .... is one of the internal parasites, while ..... is one of the external parasites.
3. .... and ..... are among the methods of forming mixture.
4. Predation process causes ..... number of prey populations.
5. .... is a pure substance.

### 2 A. Choose the correct answer:

1. ★ In dynamo kinetic energy changes to (electric - light - magnetic - sound) energy.
2. ★ All the following ..... transparent materials except (carton - glass - water - air).
3. ★ By mixing all spectrum colors (magenta - black - white - blue) color is formed.
4. ★ Spoon seems broken in a cup containing water due to (light reflection - light splitting - light refraction - the fact that light travels in a straight line).



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B. ★ Compare between the following:

	Magnetic material	Nonmagnetic material
Definition	..... .....	..... .....
Example	.....	.....

3 A. Write the scientific term for each of the following:

- ★ Returning of light rays when they fall on a plane mirror. (.....)
- ★ Space surrounding magnet and magnetic force appears on it. (.....)
- The substances that dissolve in a solvent. (.....)
- The natural area including living organisms and nonliving things. (.....)

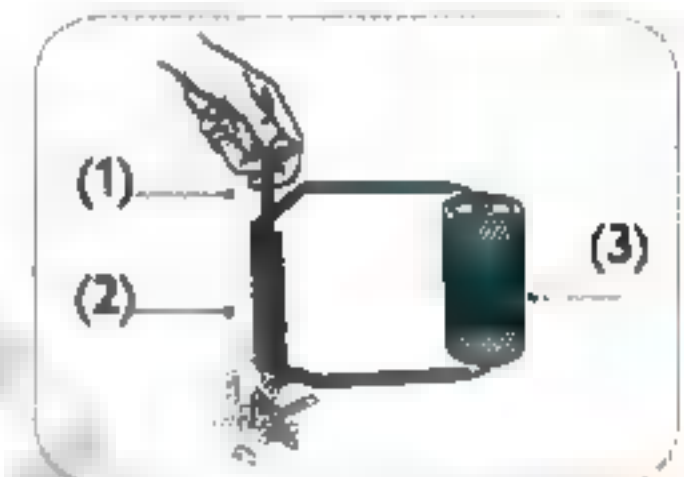
B. Give a reason for each of the following:

- ★ Red apple appears black through blue glass.
- Some living organisms can make mimicry or camouflage.

4 A. ★ Look at the opposite figure, then answer:

- The figure represents .....

- (1) points to .....
- (2) points to .....
- (3) points to .....



- What happens if you approximate some iron filings to the figure?

B. Write the name of tools used in:

- ★ Knowing the four directions. (.....)
- Separating a mixture of oil and water. (.....)

12 Suez - Directorate of Education

1 A. Complete the following sentences:

- ★ The material which cannot allow light to transmit through is called .....
- ★ The set that changes the mechanical energy into electric energy is known as .....
- ★ Red light + green light + blue light = .....
- ★ The magnet pole that always refers to north direction is called .....
- Increasing temperature ..... solubility time.
- ..... is one of the extinct organisms due to the changing in the natural conditions.





**B. Mention the name of the tool that can be used in each of the following cases:**

1. Separating a mixture of oil and water. ( )
2. Separating light into seven colors. ( )

**2 A. Write the scientific term for each of the following:**

1. The organisms which help to get rid of dead organisms. ( )
2. ★ The colors we get by mixing two colors of the primary light. ( )
3. ★ A tool that is used for locating the main four geographic directions. ( )
4. A process that needs the presence of solvent and solute. ( )
5. The food relationship between two organisms that get benefit from each other. ( )
6. The natural area including living organisms and non-living things. ( )

**\* B. Compare between the following:**

	Magnetic material	Nonmagnetic material
Definition	.....	.....
Example	.....	.....

**3 A. Choose the correct answer:**

1. ★ The dynamo is fixed in the bicycle (seat - pedal - tire).
2. ★ The picture formed through a narrow hole is (upright minimized - inverted minimized - inverted magnified).
3. ★ Which of the following is considered a secondary color? (Yellow - Green - Blue).
4. ★ We can see things as a result of (reflection - refraction - absorption) of rays.
5. The animal that devours another animal is called (parasite - host - predator).
6. An example of decomposers is (fungus - rabbit - plant).

**B. What happens in each of the following...?**

1. ★ When a magnet is hanged freely to move.
2. Cutting the trees down.

**4 A. Put (✓) or (X):**

1. ★ Filtration is used to separate soluble solid materials. ( )
2. Some living organisms can change their color to simulate the colors of the environment where they live to hide from their enemies. ( )
3. The balance of ecosystem occurs due to interference of man. ( )

**B. Give a reason:**

1. ★ The moon cannot be considered a source of light.
2. Air is a mixture.



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C. Choose from column (B) what suits in column (A):

(A)	(B)
1. Ascaris worm	a. can be separated by using a magnet
2. Pure water	b. is (are) internally parasitism
3. Iron filings and sand mixture	c. cause (s) anemia
4. A food relationship between man and liver worm	d. is (are) a pure substance
	e. is (are) external parasitism
1. ....	2. ....
3. ....	4. ....

## 13 Luxor - El Salam Language School

## 1 Choose the correct answer:

- ★ The coil of the dynamo is made up of (copper - iron - carbon).
- (Distilled water - Milk - Mineral water) is an example of pure substance.
- The substance that dissolves in solvent is (alcohol - water - salt).
- ★ The (red - blue - yellow) is from secondary lights.
- ★ The light travels in (curved - straight - broken) lines.
- ★ The (gold - steel - copper) is a magnetic material.
- Jawless lamprey and fish relationship is (predation - saprophytism - parasitism).
- Mosquitoes cause (anemia - malaria - smallpox disease).

## 2 A. Write the scientific term:

- ★ The material that doesn't allow light to pass through. (.....)
- Living organisms fed by decomposing organic wastes or dead bodies. (.....)
- ★ Reflection of light in one direction. (.....)
- The balance among the components of the ecosystem. (.....)
- ★ The space around the magnet where the magnetic force appears. (.....)

## B. Give a reason for each of the following:

- ★ Formation of image through narrow holes.
- Water is a common solvent.
- Relation between nodular bacteria and bean plants is mutualism.

## 3 A. Complete the following statements:

- Solid materials can be mixed by ..... and .....
- Relation between dionaea and insects is ..... relationship.
- ★ Electromagnet changes ..... energy into ..... energy.
- ..... is an example of a gas-liquid mixture.







## Worksheets &amp; Exams

4. ★ When the white light strikes a red rose, it reflects the white color. ( )
5. Ecosystem is composed of nonliving things like water and living organisms like plants. ( )

## B. ★ Give a reason for each of the following:

- Air is considered a mixture.
- The moon cannot be considered a source of light.

## 3 A. Write the scientific term for the following:

- The food relationship between the living organisms which devour other organisms. ( )
- ★ The darkened area formed as a result of light falling on an opaque object. ( )
- ★ The space around the magnet in which the effect of magnetic force appears. ( )
- ★ The light results from mixing red, blue and green colors. ( )
- ★ Materials through which objects can be seen clearly. ( )

## B. What would happen in the following cases ... ?

- Bacteria completely disappear.
- ★ Passing of electric current in a wire wrapped around a rod of soft iron?

## 4 A. Choose from column (B) what suits in column (A):

(A)	(B)
1. ★ Refraction.	a. separate(s) the solid substances that dissolve in solution.
2. ★ Yellow light.	b. don't/doesn't mix.
3. Evaporation.	c. is(are) autotrophic.
4. Water and oil.	d. occur(s) when light transmits through two transparent media.
5. Green plants.	e. result(s) from mixing red and green lights.
1. ....	2. ....
3. ....	4. ....
5. ....	

## B. Mention one difference between:

- ★ Magnetic and nonmagnetic substances.
- ★ Regular and irregular reflecton.



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